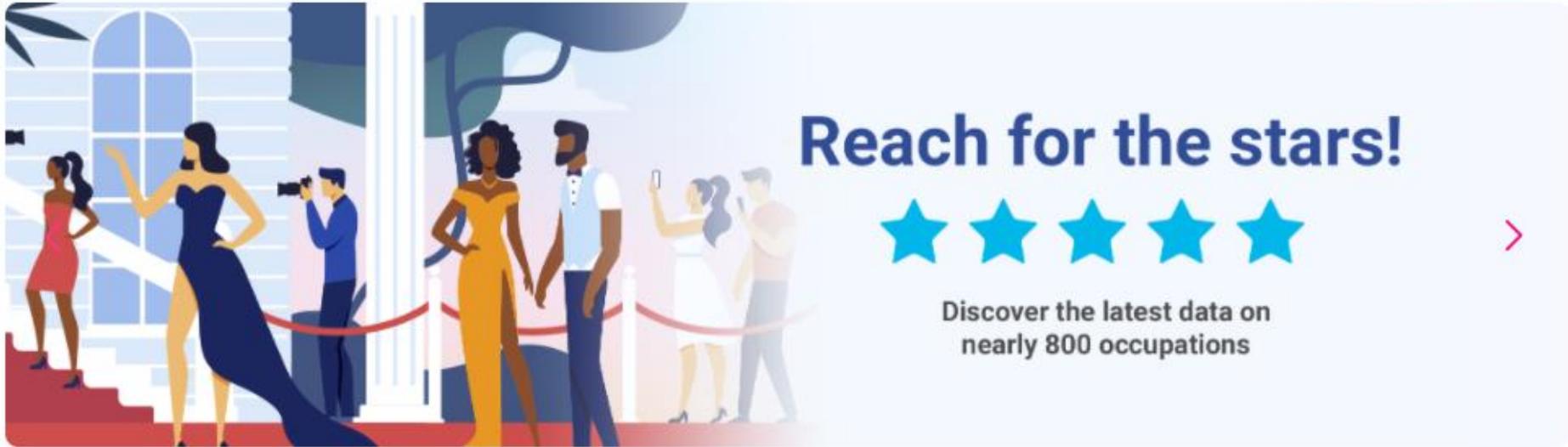




LMI Tuesdays Goes Back to School by Aligning Career Interests with Education

August 16, 2022





Governance Committee



Advisory Board



Career Information System

- 6 Assessments to understand career interests
- LMI on 793 Occupations in System
 - Statewide and regional geographies
- Career Planning tools
- Ties to Higher Education
- Links to NCWorks for job search



Find My
Interests



Explore
Occupations



Plan My
Career



Education &
Training



Job Search

I want to take
classes that help
prepare me for
my future career.



How can I prepare to work in this occupation?

Top Skills & Abilities

Writing computer programs

Making equipment and technology useful for customers

Installing equipment, machines, wiring, or computer programs

Figuring out what a product or service needs to be able to do

Figuring out what is causing equipment, machines, wiring, or computer programs to not work

Measuring how well a system is working and how to improve it

Figuring out how a system should work and how changes in the future will affect it

Using scientific rules and strategies to solve problems

Using math to solve problems

Testing how well a product or service works

Knowledge/Specialties

Administration and Management

Computers and Electronics

Design

Engineering and Technology

English Language

Mathematics

Telecommunications

Applications Software Developers ★★★★★

North Carolina

Information Technology

Annual Salary (Wages)



Lower End Wage (10th Percentile)
\$62,560 (\$28.77/hr)
Middle Wage (50th Percentile)
\$100,560 (\$48.32/hr)
Higher End Wage (90th Percentile)
\$152,000 (\$72.56/hr)

Annual Median Wage
\$ 100,560

\$42,540 Annual NC Wage Range

Growth Rate



Very Fast Growing

Software developers are the creative minds behind computer programs. They develop applications that allow people to do specific tasks when using technology tools.

What do they typically do

- Consult with customers about software system design and maintenance
- Analyze users' needs and then design, test, and develop software to meet those needs
- Research and evaluate factors like required reporting formats, costs, and security needs to decide how to configure hardware
- Change existing software to correct errors, adapt it to new hardware, or improve performance
- Determine system performance standards
- Design each part of the application and plan how the pieces will work together
- Document every aspect of the application as background for future maintenance and upgrades
- Collaborate with other computer specialists to create the best possible software

Ratings



Common Job Titles

- .NET Developer
- Android Developer

More

Similar Occupations

- Legislators
- Computer Hardware Engineers

More

Occupation Code

15-125 - Applications Software Developers

Pathway

Programming and Software Development

NC DPI Career Pathways

Identify the High School Classes that can help start preparing you for a chosen career.

Find classes

Number of Jobs



Average Annual Job Growth +2.6%
Job Opening 3,508

Job Listings

Select a region/location in North Carolina to begin your search.

View available jobs

Education & Training

Education
Most require a four-year bachelor's degree, but some do not

Postsecondary Degrees or Majors

[Computing & Information Systems](#)

[Data Science](#)

[Software Engineering](#)

More

Licenses

None

Postsecondary Programs

[\(A\) Certification Exam Prep Class - Scrum Master Certification Training](#)

[\(A\) Certification Exam Prep Class - Scrum Master Training](#)

[\(CIS\) ISACA Certified Information Systems Auditor](#)

More

First Step

Find out where to start your new journey.
Get started

Next Step

Find out what's next in line on your career journey.
Get started



Video showing a person working at a computer.

Interests

- Investigative
- Realistic
- Conventional

Investigative Realistic Conventional

Work Place

Many applications software developers work in office environments for employers such as insurance carriers or corporate headquarters. In general, software development is a collaborative process and developers work on teams with others who contribute to designing, developing, and programming successful software. Some developers telecommute (work away from the office). Most software developers work full time, and long hours are common.

Top Skills & Abilities

Writing computer programs
Making equipment and technology useful for customers

Installing equipment, machines, wiring, or computer programs

More

Knowledge/Specialties

Administration and Management
Computers and Electronics

Design
Engineering and Technology

English Language
Mathematics
Telecommunications

Experience

A considerable amount of work-related skill, knowledge, or experience is needed.

Training

Usually several years of work-related experience, on-the-job training, and/or vocational training.

How do I know
what to study
past high
school?



How much education do I need?

Any requirements beyond a degree?

Education & Training

Education

Most require a four-year bachelor's degree, but some do not.

Associated Programs or Majors

[Cyber Crime Technology](#)

[Information Technology](#)

[Project Management](#)

[Information Systems](#)

[Security](#)

[More](#)

License

NA

Private Training Programs

[\(A Certification Exam Prep Class\)- Scrum Master Training](#)

[\(CISA\) ISACA Certified Information Systems Auditor](#)

[A+ Bootcamp, Certification, and Mentorship \(CompTIA A+\)](#)

[More](#)

What program should I look for?

Do I have any other options?

Information Security Analysts ★★★★★ North Carolina

Information Technology

Annual Salary (Wages)

Annual Median Wage: **\$103,470**

Annual NC Wage Range: \$61,450 - \$151,500

Growth Rate: **Very Fast Growing**

Information security analysts plan and carry out security measures to protect an organization's computer networks and systems. Their responsibilities are continually expanding as the number of cyberattacks increase.

What do they typically do

- Research the latest information technology (IT) security trends
- Monitor organizational networks for security breaches and investigate a violation when one occurs
- Recommend security enhancements to management or senior IT staff
- Conduct penetration testing, which is when analysts simulate attacks to look for vulnerabilities in their systems before they can be exploited
- Develop security standards and best practices for their organization
- Prepare reports that document security breaches and the extent of the damage caused by the breaches
- Help plan and carry out an organization's way of handling security
- Install and use software, such as firewalls and data encryption programs, to protect sensitive information

Ratings

Wage (5/5)

Job Openings (4/5)

Job Growth Rate (5/5)

Experience Level (4/5)

Common Job Titles

All Source-Collection Manager

All Source-Collection Requirements Manager

All-Source Analyst

Similar Occupations

Health and Safety Engineers

Industrial Engineering Technicians

Claims Adjusters, Examiners, and

Occupation Code

151122 - Information Security Analysts

Pathway

Network Systems

NCDPI Career Pathways

Identify the High School Classes that can help start preparing you for a chosen career.

[Find classes](#)

Number of Jobs

2018: 4,662 | 2028: 4,870

Average Annual Job Growth: 0.5%

Job Opening: 498

Job Listings

Select a region/location in North Carolina to begin your search.

[View available jobs](#)

Education & Training

Education: Most require a four-year bachelor's degree, but some do not.

Associated Programs or Majors: [Cyber Crime Technology](#), [Information Technology](#), [Project Management](#), [Information Systems Security](#)

License: NA

Private Training Programs: [\(A Certification Exam Prep Class\)- Scrum Master Training](#), [\(CISA\) ISACA Certified Information Systems Auditor](#)

Top Skills & Abilities

Writing computer programs

Making equipment and technology useful for customers

Figuring out what a product or

Knowledge/Specialties

Administration and Management

Computers and Electronics

Customer and Personal Service

Education and Training

Engineering and Technology

English Language

Public Safety and Security

Telecommunications

Experience

A considerable amount of work-related skill, knowledge, or experience is needed.

Training

Usually several years of work-related experience, on-the-job training, and/or vocational training.

First Step

Find out where to start your new journey.

[Get started](#)

Next Step

Find out what's next in line on your career journey.

[Get started](#)

Program Locator

Type in a program name to see which institutions offer it. Select from Public Universities, Independent Colleges/Universities and the NC Community College System. Click on the institution's name or on the map for more information.

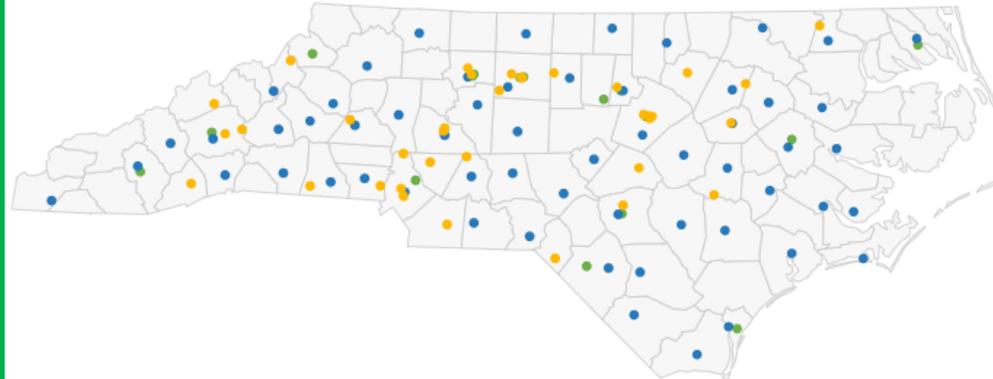
Search by Program/Degree



110 Colleges/Universities found

- Public Universities 16
- Independent Colleges/Universities 36
- NC Community College System 58

- Alamance Community College
- Appalachian State University
- Asheville-Buncombe Technical Community College
- Barton College
- Beaufort County Community College
- Belmont Abbey College
- Bennett College
- Bladen Community College
- Blue Ridge Community College
- Brevard College
- Brunswick Community College
- Cabarrus College of Health Sciences
- Caldwell Community College and TI
- Campbell University
- Cape Fear Community College
- Carteret Community College
- Catawba College



Click on a College or University to view more information.



Link for more
information

Professional and technical skill training is offered by accredited colleges and universities and by private training providers. If interested in short-term training, it is best to look at all options to determine which provides the highest value and quality. Below is a table of Private Training Providers. You can search for training at NC's community colleges and universities in our [Find College Programs](#) tool. [Scholarships and grants](#) may be available to community college and university programs as well as private providers for those who qualify. Visit your local [NCWorks Career Center](#) before enrolling to see if you are eligible. Awards cannot be made to those who enroll before speaking to their local Career Center. Don't see a program you are interested in, visit the [Eligible Training Provider List](#) page for more information.

Search By

- Occupation
- Program Title
- Provider Name

Type in Occupation Name or Job Title



PROGRAM TITLE	PROVIDER NAME	ADDRESS	CITY	STATE	CREDENTIAL	DURATION	COST	
Dental Assisting I (Includes Dental Radiology)	Sandhills Dental Career Center, Inc	1902 N. Sandhills Blvd	Aberdeen	NC	A community college certificate of completion	11 Weeks	\$4,200.00	Learn more
PHR Certification Bundle	Human Resource Certification Institute	1725 Duke Street Suite 700	Alexandria	VA	An industry-recognized certificate or certification	40 Hours	\$2,500.00	Learn more
Advanced Competency Home Health Core Course Bundle	American Physical Therapy Association	3030 Potomac Avenue	Alexandria	VA	An industry-recognized certificate or certification, Employment, A measurable skills gain leading to employment	40 Weeks	\$153.00	Learn more
Society of Human Resource Management SHRM	Society of Human Resource Management	1800 Duke Street	Alexandria	VA	An industry-recognized certificate or certification, Employment, A measurable skills gain leading to a credential.	48 Hours	\$2,000.00	Learn more

What jobs did my
education prepare
me for?



What Can I do with My Education?

Start Planning

Next Step

First Step

What Can I Do With My Education?



Type in a program name and then select the degree type to see which occupations best match your education. Click on an occupation to learn more about it and see a complete occupation profile.

Search by Program/Degree



CLEAR

SEARCH

Bachelor's Degree in Accounting

Good Matches

- Accountant & Auditor
- Financial Examiner
- Budget Analysts
- Credit Analyst
- Financial Analyst

Accounting		Bachelor's	CLEAR	SEARCH	
40 matching occupations found					
			Median Annual Wage	Annual Growth Rate	Avg. Annual Openings
♥	 Financial Examiners Star Rating: ★★★★★ Education: Bachelor's degree Good match Your education level meets the typical minimum required		\$67,350 (\$32.88/hr)	 Very Strong Growth 1.50%	 Strong Opportunity 409
♥	 Tax Examiners and Collectors, and Revenue Agents Star Rating: ★★★★☆ Education: Bachelor's degree Good match Your education level meets the typical minimum required		\$56,520 (\$27.19/hr)	 Slow Growth 0.25%	 Average Opportunity 185
♥	 Accountants and Auditors Star Rating: ★★★★★ Education: Bachelor's degree Good match Your education level meets the typical minimum required		\$72,900 (\$35.05/hr)	 Average Growth 0.84%	 Very Strong Opportunity 4,022
♥	 Appraisers and Assessors of Real Estate Star Rating: ★★★★☆ Education: Bachelor's degree Good match Your education level meets the typical minimum required		\$60,440 (\$29.06/hr)	 Average Growth 0.92%	 Average Opportunity 280
♥	 Budget Analysts Star Rating: ★★★★☆ Education: Bachelor's degree Good match Your education level meets the typical minimum required		\$71,470 (\$34.36/hr)	 Slow Growth 0.58%	 Average Opportunity 95
♥	 Credit Analysts Star Rating: ★★★★★ Education: Bachelor's degree Good match Your education level meets the typical minimum required		\$88,100 (\$42.36/hr)	 Strong Growth 1.30%	 Strong Opportunity 299
♥	 Financial Analysts Star Rating: ★★★★★ Education: Bachelor's degree Good match Your education level meets the typical minimum required		\$84,628 (\$40.70/hr)	 Strong Growth 1.30%	 Very Strong Opportunity 1,001
♥	 Compensation, Benefits, and Job Analysis Specialists Star Rating: ★★★★☆ Education: Bachelor's degree Good match with appropriate skill, knowledge, or experience Your education level meets the typical minimum required		\$64,450 (\$30.99/hr)	 Strong Growth 1.03%	 Strong Opportunity 301
♥	 Market Research Analysts and Marketing Specialists Star Rating: ★★★★★ Education: Bachelor's degree Good match with appropriate skill, knowledge, or experience Your education level meets the typical minimum required		\$64,680 (\$31.10/hr)	 Very Strong Growth 2.17%	 Very Strong Opportunity 2,572
♥	 Cost Estimators Star Rating: ★★★★★ Education: Bachelor's degree Good match with appropriate skill, knowledge, or experience Your education level meets the typical minimum required		\$61,190 (\$29.42/hr)	 Strong Growth 1.09%	 Very Strong Opportunity 795
♥	 Insurance Underwriters Star Rating: ★★★★☆ Education: Bachelor's degree Good match with appropriate skill, knowledge, or experience Your education level meets the typical minimum required		\$71,720 (\$34.48/hr)	 None or Negative Growth -0.23%	 Average Opportunity 174

Bachelor's Degree in Accounting

Good Match with appropriate skill, Knowledge or Experience

- Compensation, Benefits & Job Analysis Specialists
- Market Research Analysts & Marketing Specialists
- Costs Estimators
- Insurance Underwriters

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40 matching occupations found					
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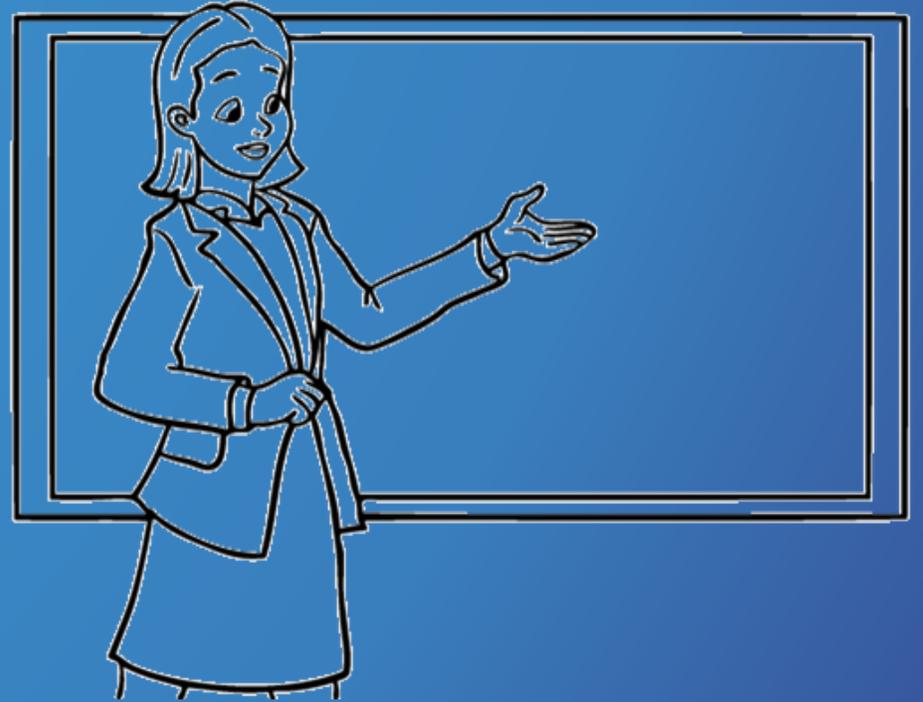
Bachelor's Degree in Accounting

Potential Match

- Logisticians
- Human Resources Specialists
- Purchasing Managers
- Survey Researchers

Accounting		Bachelor's	CLEAR	SEARCH	
40 matching occupations found					
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**Are there any
Career Exploration
and Planning
resources
available?**



Career Development Lesson Plans

- 66 Download and edit for your needs
- Written for grade levels:
 - Late Elementary/Middle School
 - High School
 - Post Secondary



Career Development Lesson Plans

- Click on Educator Resources link in Footer



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Lesson Plan Topics include:

- Overview
- Reality Check
- Interest Finder
- Career Cluster Match
- Be Your Own Boss
- Skills Matcher
- Work Values Sorter
- I didn't know this existed
- What Can I do with that Education?
- Common Job Titles
- Similar Occupations
- What's the Future of my Occupation?
- Career Planning Resources
- Getting a Job

By Topic By Grade About the Lesson Plans

Click on a link to download the Microsoft PowerPoint (.pptx) or PDF file.

Overview of Site

Lesson Plan	Activity # 1	Activity # 2
Conversation Starter (4-12 Grade)		
Overview (4-5 Grade)	WebQuest Fillable Worksheet	WebQuest Printable Worksheet
Overview (6-8 Grade)	WebQuest Fillable Worksheet	WebQuest Printable Worksheet
Overview (9-12 Grade)	WebQuest Fillable Worksheet	WebQuest Printable Worksheet
Overview Post Secondary	Exploratory Questions Post Secondary Worksheet	

Reality Check

Lesson Plan	Activity # 1	Activity # 2
Reality Check (4-5)	Reality Check Worksheet	
Reality Check (6-8)		
Reality Check (9-12)	Venn Diagram Worksheet	
Reality Check Post Secondary		
Reality Check Results (4-8)	Reality Check Results Percentage Worksheet	

Interest Finder

Lesson Plan	Activity # 1	Activity # 2
Interest Finder (4-5)	The Holland Codes Worksheet	
Interest Finder (6-8)		
Interest Finder (9-12)		
Interest Finder Post Secondary		

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DREAM IT. PLAN IT. BE IT.

NCCareers.org

